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Mail Stop: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on February 28, 2006.

*Ali Makoui*  
Ali Makoui

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application for:

Michael D. Gallagher et al.

Serial No.: 10/688,470

Filing Date: 10/17/2003

For: APPARATUS AND METHOD FOR  
EXTENDING THE COVERAGE AREA  
OF A LICENSED WIRELESS  
COMMUNICATION SYSTEM USING  
AN UNLICENSED WIRELESS  
COMMUNICATION SYSTEM

Examiner: Brandon J. Miller

Group Art Unit: 2683

**TRANSMITTAL LETTER FOR INFORMATION DISCLOSURE STATEMENT**

Mail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The following IDSs are being submitted for U.S. Patent Application No. 10/116,311.  
Please find attached hereto, the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449;
3. 34 Cited References;
4. Credit Card Payment Form; and
5. A Return Receipt Post Card

The fee has been calculated as follows:

FOR	NUMBER	NUMBER OVER ALLOTMENT	RATE	CALCULATIONS
Information Disclosure Statement under C.F.R § 1.97(b)	0	0	\$0	\$0
Fees for an IDS under C.F.R. § 1.97(c) or (d)	1	0	\$180.00	\$180.00
Total from Above				\$180.00
Reduction by 1/2 for filing by small entity (Note 37 C.F.R. §§ 1.9, 1.27, 1.28). The Applicant hereby states that it qualifies as a small entity under 37 CFR 1.27				\$0.00
				<b>TOTAL = \$180.00</b>

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this transmittal and associated documents, or to credit any overpayment to **Deposit Account No. 50-1128**, referencing **Attorney Docket No. BUZA-013/01US**.

Respectfully submitted,

Dated: February 28, 2006

By: \_\_\_\_\_

Ali Makoui  
Registration No. 45,536

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COMMUNICATION SYSTEM

Examiner: Brandon J. Miller

Group Art Unit: 2683

**INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97**

Mail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, applicants submit with this Information Disclosure Statement the attached Form PTO-1449, and copies of the documents listed in the 1449 form for consideration by the Examiner. The Examiner is requested to make these documents of record. Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

This Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to

the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

This Information Disclosure Statement is submitted after the mailing of a first Office action on the merits, but before the mailing date of a final Office under 37 C.F.R. § 1.113, a notice of allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution in the application. Accordingly, a fee is required. A fee in the amount of \$180 is enclosed.

However, in the unlikely event that the Patent Office determines that additional fees, extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 50-1128** referencing Attorney Docket BUZA-013/01US. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Dated: February 28, 2006

By: \_\_\_\_\_

Ali Makoui

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

### Complete if Known

Application Number	10/688,470
Filing Date	10/17/2003
First Named Inventor	Michael D. Gallagher
Group Art Unit	2683
Examiner Name	Brandon J. Miller
Attorney Docket Number	BUZA-0013/01US

Sheet 1 of 3

### U.S. PATENT DOCUMENTS

Examiner* Initials	Cite No.	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	1.	2002/0066036		05/30/2002	Makineni, Gowri	
	2.	2002/0142761		10/03/2002	Wallstedt, Yngve K, et al.	
	3.	2003/0031151		02/13/2003	Sharma, Mukesh, et al.	
	4.	2003/0087653		05/08/2003	Leung, Nikolai	
	5.	2003/0119527	A1	06/26/2003	Labun, Nicholas	
	6.	2003/0139180	A1	07/24/2003	McIntosh et al.	
	7.	2004/0037312		02/26/2004	Spear, Stephen L.	
	8.	2004/0068571	A1	04/08/2004	Ahmavaara, Kalle	
	9.	2004/0077374		06/17/2004	Terry, Stephen E.	
	10.	2004/0116120		07/29/2004	Mohammed, Jahangir et al.	
	11.	2004/0202132		10/14/2004	Tomi Heinonen	
	12.	2004/0203346		10/14/2004	Myhre, John, et al.	
	13.	2004/0203737		10/14/2004	Myhre, John, et al.	
	14.	2004/0203800		10/14/2004	Myhre, John, et al.	
	15.	2005/0101329		05/12/2005	Michael Gallagher	
	16.	2005/0064896		03/24/2005	Rautiola, Markku, et al.	
	17.	2005/0198199		09/08/2005	Dowling, Eric Morgan	
	18.	2005/0207395	A1	09/22/2005	Mohammed, Jahangir	
	19.	5,949,773		09/07/1999	Bhalla et al.	

Examiner Signature	Date Considered
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Examiner Name	Brandon J. Miller
Attorney Docket Number	BUZA-0013/01US

Sheet

2

of

3

**U.S. PATENT DOCUMENTS**

		U.S. Patent Document				
	20.	6,463,307	B1	10/08/2002	Larsson, Mikael , et al.	
	21.	6,801,519		10/05/2004	Mangel, Manish	
	22.	6,895,255		05/17/2005	Bridgelall, Raj	

**FOREIGN PATENT DOCUMENTS**

Examiner* Initials	Cite No.	Foreign Patent Document			Date of Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code (if known) <sup>5</sup>				
	23.	WO	0028762	A1	05/18/2000	Nortel Networks Corp (CA)		✓
	24.	WO	03039009	A2	05/08/2003	Nokia Corporation		✓
	25.	WO	03092312	A1	11/06/2003	Ericsson Telefon AB L M (SE);		✓
	26.	WO	2003039009	A3	05/08/2003	Nokia Corporation; Nokia, Inc.		✓
	27.	WO	2004002051	A2	12/31/2003	Thompson Licensing S.A.		✓
	28.	WO	2004034219		04/22/2004	Interdigital Tech Corp (US)		✓
	29.	WO	2004036770	A2	04/29/2004	Kineto Wireless, Inc.		✓
	30.	WO	2004039111		05/06/2004	AT & T Wireless Services Inc (Us)		✓
	31.	WO	2005006597	A1	01/20/2005	Samsung Electronics Co Ltd (KR)		✓
	32.	WO	2005114918	A2	12/01/2005	Kineto Wireless, Inc.		✓

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SignatureDate  
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				Examiner Name	Brandon J. Miller
Sheet	3	of	3	Attorney Docket Number	BUZA-0013/01US

NON PATENT LITERATURE DOCUMENTS			
Examiner* Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	33.	"Digital cellular telecommunications system (Phase 2+); Universal Mobile Telecommunications System (UMTS); Mobile radio interface Layer 3 specification; Core network protocols; Stage 3 (3GPP TS 24.008 version 5.6.0 Release 5); ETSI TS 124 008," ETSI STANDARDS, EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE, SOPHIA-ANTIPO, FR, vol. 3-CN1, no. V560, December 2002 (2002-12), pages 293-317, XP014007949, ISSN: 0000-0001	√
	34.	"3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; 3GPP System to Wireless Local Area Network (WLAN) Interworking; System Description (Release 6); 3GPP TS 23.234," ETSI STANDARDS, EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE, SOPHIA-ANTIPO, FR, vol. 3-SA, no. V230, November 2003 (2003-11), XP014023920, ISSN: 0000-0001	√

Examiner Signature		Date Considered	
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